

Application Serial No. 10/579,087
Reply to office action of November 19, 2008

PATENT
Docket: CU-4808

3. **(currently amended)** The method of claim 1, wherein a value of the second pixel which is filtered by applying the mean-variance filter to the second pixel is calculated as,

$$\frac{\sigma_k^2(i,j)k(i,j) + \bar{k}^2(i,j)}{\sigma_k^2(i,j) + \bar{k}(i,j)}$$

value of filtered second pixel= , and
said $k(i, j)$ is a first pixel value in coordinates (i, j) , said $\sigma_k(i,j)$ is the variance of values of second pixels, and said $\bar{k}(i,j)$ is the mean of the values of the second pixels.

4. **(currently amended)** A computer readable record medium recording a program for implementing medium used in association with a computing device which includes a processor and a memory, the computer readable medium including computer instructions which are configured to cause the computing device to implement the method according to claim 1 in a computer.

5. (Original) A system for removing noise in an image, the system comprising:
a threshold calculation unit dividing image data contained in the image into predetermined unit areas and calculating each threshold corresponding to the unit area by using values of pixels contained in the unit area;
a first filter detecting whether a first pixel containing impulsive noise exists in the unit area by using the calculated threshold and applying a median filter to the first pixel in the case the first pixel is detected; and